Publication number: JP2169612

Publication date: 1990-06-29

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Applicant: AS,

Classification:

- international:

C08F297/04; B29C61/06; C08F297/00; B29C61/06; (IPC1-7):

C08F297/04

- European:

Application number: JP19880323267 19881223

Priority number(s): JP19880323267 19881223

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#### Abstract of JP2169612

molding a block copolymer having a specified structure under specified conditions and remolding the obtained molding under specified conditions. CONSTITUTION: conjugated diene compound or a vinylaromatic compound, wherein at least 50mol% of the unsaturated bonds of the conjugated diene units are hydrogenated to give a A block copolymer of a weight-average MW of 10000-1000000, having an A-B-A block structure in the polymer chain, wherein block A is a polymer comprising a molded into a desired shape at a temperature above the glass transition point of block A and remolded into a shape different from that of the above at a temperature vinylaromatic compound homopolymer, a copolymer there of with another vinylaromatic compound or a conjugated diene compound, or a hydrogenation product degree of a crystallinity >=5wt.% and at least 50wt.% of the crystal can melt at a temperature below the glass transition point of block A. The block copolymer is PURPOSE: To obtain the title molding of excellent shape memory properties without the necessity for any special operation for shaping, such as crosslinking, by thereof and having a glass transition point >=50 deg. C, and block B is a polymer comprising a conjugated diene compound or a copolymer thereof with another ower than its glass transition point.

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Publication number: JP8196617

Publication date: 1996-08-06

Inventor: SHIKINAMI YASUO; IKADA

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Applicant: TAKIRON CO; BIOMATERIAL

UNIVERSE KK

Classification:

- international: A61L27/00; A61L27/00; (IPC1-7):

A61L27/00

- European:

Application number: JP19950268999 19950925

Priority number(s): JP19950268999 19950925

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#### Abstract of JP8196617

modulus, by melt-molding a polylactic acid polymer having high molecular weight under a specified adjusted condition and drawing and cutting it. CONSTITUTION: molding these polymers and further cutting the drawn molding. On this occasion, the molding is cutting-worked into any shape of a plate, a pin, a machine screw, or a PURPOSE: To provide a surgical material which has the same as bone or a little higher than that on compressive bending strength and compressive bending elastic This surgical material is an in vivo degradation absorbable material which is composed exclusively of a polylactic acid with viscosity average molecular weight of 10<2> kg/mm<2> or more, and the viscosity average molecular weight is 200,000 or more. Thereby, high compressive bending strength, the compressive bending 300,000 to 600,000 or lactic acid-glycolic acid copolymer, thereby the surgical material having toughness and excellent hydrolysis- resistance is obtained by meltscrew for bone conjugation. The compressive bending strength of the molding is 1.6×10<3> kg/cm<2> or more, the compressive bending elastic modulus is 5.0× elstic modulus and hydrolysis-resistance can be ensured.

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Publication number: JP9040761

Publication date: 1997-02-10

Inventor: MATSUI MASAO; KOSEKI

HIDEKAZU

ant: SHIMADZU CORP

Applicant: Classification: international: *C08G63/06*; *C08G63/08*;

C08G63/78; C08G63/00; (IPC1-7):

C08G63/06; C08G63/08

- European:

Application number: JP19950193900 19950728

Priority number(s): JP19950193900 19950728

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#### Abstract of JP9040761

segments comprising a substantial homopolymer of poly-L-lactic acid or poly-D- lactic acid are combined with amorphous segments composed mainly of L-lactic acid copolymer consisting of crystalline segments and amorphous segments of lactic acid. SOLUTION: This polylactic acid block copolymer is one in which crystalline PROBLEM TO BE SOLVED: To obtain a polylactic acid block copolymer excellent in crystallinity, heat resistance, flexibility and toughness by forming a block and D-lactic acid. The heat absorption on melting of the crystal of the copolymer is preferably at least 51/g. This copolymer is obtained by reacting an amorphous polymer composed mainly of L-lactic acid and D-lactic acid and having a hydroxyl group at least on one end with L-lactide or D-lactide, or reacting a substantial homopolymer or L-lactic acid or D-lactic acid having a hydroxyl group at least on one end with L-lactide, D-lactide and/or LD-lactide.

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# **BIODEGRADABLE POLYMER COMPOSITION**

Publication number: JP9095606

Publication date: 1997-04-08

Inventor: TOKUSHIGE YUJI; TANIFUJI

YOICHI

Applicant: SHINETSU CHEMICAL CO

Classification:

C08L67/04; C08L83/04;

C08K5/098; C08L67/00;

- international:

C08L101/16; C08L101/16;

C08K5/00; C08L67/00;

C08L101/00; (IPC1-7): C08L67/04;

C08K5/098; C08L83/04

- European:

Application number: JP19950253067 19950929

Priority number(s): JP19950253067 19950929

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#### Abstract of JP9095606

lactate, zinc lactate, lead lactate, barium lactate, aluminum lactate, iron lactate, silver lactate, magnesium lactate, manganese lactate, copper lactate or their mixture) and SOLUTION: This biodegradable polymer composition mainly comprises (A) lactic acid oligomer (suitably comprising L-lactic acid, D-lactic acid or their mixture with a molecular weight distribution from dimer to pentacontamer (50-mer), (B) a thermal stabilizer (suitably lactic acid inorganic salt, for example, sodium lactate, calcium methylstyryl-modified silicone, in an example, 100 pts.wt. of poly(lactic acid) are mixed with 10-15 pts.wt. of the component A, 2-3 pts.wt. of the component B and 1-PROBLEM TO BE SOLVED: To obtain a biodegradable polymer composition which mainly comprises a specific poly(lactic acid), has improved elongation at break (C) a mold releasing agent (suitably a silicone oil having viscosity at 25 deg. C ranging from 10-10,000cs). The silicone oil is suitably an alkyl-modified silicone or and shock resistance without adverse effect on its tensile strength and transparency with excellent mold release characteristics, and is useful as a package material. 2 pts.wt. of the component C.